

## Refine Search

### Search Results -

Terms	Documents
(4376977 4783672 5219426 5708502 6100830 6189142 6199199 6212675 6212675 4398178 4498083 4799798 4906830 5189533 5228086 5276819 5286961 5293319 5349460 5481294 5506394 5506590 5535393 5656805 5701828 5784031 5828050 5917622 5932860 5946020 5966524 5978586 6023284 6036095 6119264 6240652 3594764 3868476 3784794 4167879 4244396 4278876 4291409 4302825 4313224 4316188 4327814 4356840 4385234 4390974).pn.	49

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L1

Refine Search

Recall Text

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### Search History

 DATE: Monday, May 10, 2004    [Printable Copy](#)    [Create Case](#)

Set  
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DB=USPT; PLUR=NO; OP=OR

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 4385234 4390974).pn.

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END OF SEARCH HISTORY

PLUS

## Refine Search

### Search Results -

Terms	Documents
L1 AND object AND UML	0

Database:

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Search:

L2





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Set  
 Name Query  
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 side

Hit  
 Count  
 Set  
 Name  
 result  
 set

*DB=USPT; PLUR=NO; OP=OR*

L2   L1 AND object AND UML

0   L2

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 4385234 4390974).pn.

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END OF SEARCH HISTORY

## Refine Search

### Search Results -

Terms	Documents
L3 AND UML	7

Database:

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Search:

L4

Refine Search

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### Search History

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#### Set Name Query

side by side

#### Hit Count Set Name

result set

DB=USPT; PLUR=NO; OP=OR

<u>L4</u>	L3 AND UML	7	<u>L4</u>
<u>L3</u>	L2 AND class and inheritance	82	<u>L3</u>
<u>L2</u>	L1 OR 717/109.ccls.	445	<u>L2</u>
<u>L1</u>	717/100.ccls. OR 717/106.ccls.	298	<u>L1</u>

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☐ 1. Document ID: US 6694505 B1

L4: Entry 1 of 7

File: USPT

Feb 17, 2004

US-PAT-NO: 6694505

DOCUMENT-IDENTIFIER: US 6694505 B1

TITLE: Method for using a data flow net to specify and assemble computer software

DATE-ISSUED: February 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tan; Hee Beng Kuan	Singapore			SG

US-CL-CURRENT: 717/100; 707/103R, 717/101, 717/102, 717/103, 717/104, 717/107,  
719/331

ABSTRACT:

A method for specifying computer software called the Data Flow Net ("DF Net") which enables the reusability of portions of the software. Computer software is specified by combining sets of code fragments which implement some coherent functionalities. A method to represent a set of code fragments is provided. A method for combining sets of code fragments specified according to the DF Net method is described. A method for transforming software specified according to the DF Net method into executable instructions is further provided.

11 Claims, 18 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 14

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Draw De
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☒ 2. Document ID: US 6684386 B1

L4: Entry 2 of 7

File: USPT

Jan 27, 2004

US-PAT-NO: 6684386

DOCUMENT-IDENTIFIER: US 6684386 B1

TITLE: Method for converting a UML rendering of an RSM-based metamodel to a UML

rendering of MOF-based metamodel

DATE-ISSUED: January 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baisley; Donald Edward	Laguna Hills	CA		

US-CL-CURRENT: 717/114; 717/100, 717/138

ABSTRACT:

A computer-implemented method for converting a UML rendering of an RSM-based metamodel to a UML rendering of a MOF-based metamodel. The method includes the steps of removing inheritance from classes defined within a Repository Services Model ("RSM") and removing each explicit "construct" operation from each class in the RSM-based metamodel. Next, each use in the RSM-based metamodel of an RSM type is changed to use a non-RSM type. After this, each element of the RSM-based metamodel is converted to a corresponding MOF-based element and a determination is made as to whether or not the RSM naming service is used in the RSM-based metamodel, and if so "name" attributes are added that would have been inherited from the RSM classes. A <<metamodel>> stereotype is added to the UML rendering of the MOF-based metamodel; and the MOF properties are set on the UML rendering.

20 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Alterations	Claims	KWIC	Draw De
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☒ 3. Document ID: US 6601233 B1

L4: Entry 3 of 7

File: USPT

Jul 29, 2003

US-PAT-NO: 6601233

DOCUMENT-IDENTIFIER: US 6601233 B1

TITLE: Business components framework

DATE-ISSUED: July 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Underwood; Roy Aaron	Long Grove	IL		

US-CL-CURRENT: 717/102; 717/100, 717/101, 717/103, 717/104, 717/106, 717/107

ABSTRACT:

A method of generating software based on business components. A plurality of logical business components in a business are first defined with each business component having a plurality of capabilities. Next, functional interrelationships are identified between the logical business components. Code modules are then

generated to carry out the capabilities of the logical business components and the functional interrelationships between the logical business components, wherein the code modules represent a transformation of the logical business components to their physical implementation, while ensuring the capabilities that are carried out by each code module are essentially unique to the logical business component associated with the code module. Next, the functional aspects of the code modules and the functional relationships of the code modules are tested. The code modules are then subsequently deployed in an e-commerce environment.

18 Claims, 177 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 111

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☒ 4. Document ID: US 6550057 B1

L4: Entry 4 of 7

File: USPT

Apr 15, 2003

US-PAT-NO: 6550057

DOCUMENT-IDENTIFIER: US 6550057 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Piecemeal retrieval in an information services patterns environment

DATE-ISSUED: April 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: 717/126; 700/80, 707/5, 717/101, 717/102, 717/108, 717/109, 717/113

ABSTRACT:

A system, method and article of manufacture are provided for providing a warning upon retrieval of objects that are incomplete. An object is provided with at least one missing attribute. Upon receipt of a request from an application for the object access to the attributes of the object is allowed by the application. A warning is provided upon an attempt to access the attribute of the object that is missing.

15 Claims, 195 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 123

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 5. Document ID: US 6550053 B1

L4: Entry 5 of 7

File: USPT

Apr 15, 2003

US-PAT-NO: 6550053  
DOCUMENT-IDENTIFIER: US 6550053 B1

TITLE: Time estimator for object oriented software development

DATE-ISSUED: April 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Muckley; Stuart	Reading			GB

US-CL-CURRENT: 717/100; 702/102, 702/186, 705/9

ABSTRACT:

A method of estimating the time a particular designer or any one of a group of designers will take to realize a new design using an object-oriented methodology. The particular version, for each designer, or group of designers, of a formula which links time taken and the number of predetermined types of object-oriented elements, each element type having a respective multiplier for each designer or group of designers, is determined by "training" using the number of the elements employed and the actual time taken, for a number of previous designs, realized by that designer or group of designers. For the new design, the numbers of the elements to be present is determined and this data inserted into the formula with the respective designer's designers' multipliers and an estimate of time obtained.

10 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Interim	Claims	KWIC	Draw De
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☐ 6. Document ID: US 6421821 B1

L4: Entry 6 of 7

File: USPT

Jul 16, 2002

US-PAT-NO: 6421821  
DOCUMENT-IDENTIFIER: US 6421821 B1

TITLE: Flow chart-based programming method and system for object-oriented languages

DATE-ISSUED: July 16, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lavallee; Ronald J.	Northville	MD	48167	

US-CL-CURRENT: 717/109

ABSTRACT:

A visual programming aid for object-oriented programming provides high level visualization for domain experts of the entire object-oriented program to permit

understanding of the program on a macro level and to permit the domain expert to participate in the programming. In one embodiment, this is accomplished by visually arranging objects in flow charts, each object having a block number. The entire flow chart system represents the flow of events, not the flow of time. This permits concurrent execution of objects if the events permit. The objects are characterized as either action blocks or decision blocks, or both. In one embodiment action blocks are denoted as three dimensional rectangles, and decision blocks as three dimensional diamonds. Whether an object is an action or decision type is determined by object characterization which is the process of type casting the function of an object at its point of use on the flow chart. Note that decision objects are used to define the flow of groups of objects which do not have flow by themselves. In one embodiment, all objects execute independent of one another until such time as a decision object requires information from another object, with the result being that object execution is not stopped to get the results of another object. The flow chart visual programming aid represents flow charts in three dimensions, in one embodiment, with the third dimension permitting showing spinning another thread at a flow juncture. Each object block is provided in one embodiment with a snap shot tab used to call up information about the object in video, audio, pictorial or text form to provide the domain expert with the ability to further understand the object and provide input. An algorithm is presented for flow chart execution which uses the flow chart block numbers and is the same for all flow charts.

2 Claims, 11 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMUC	Draw De
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☐ 7. Document ID: US 6292933 B1

L4: Entry 7 of 7

File: USPT

Sep 18, 2001

US-PAT-NO: 6292933

DOCUMENT-IDENTIFIER: US 6292933 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Method and apparatus in a data processing system for systematically serializing complex data structures

DATE-ISSUED: September 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bahrs; Peter C.	Austin	TX		
Chancey; Raphael Poole	Austin	TX		
Feigenbaum; Barry Alan	Austin	TX		
Modh; Manish Mahesh	Round Rock	TX		
Sundberg; Sean Michael	Cedar Park	TX		
Woolfrey; John Allen Hubert	Mississauga			CA

US-CL-CURRENT: 717/107; 707/203, 717/108, 717/109

ABSTRACT:



A method and apparatus in a data processing system for serialization data. A serializer receives a data element for serialization, wherein the data element includes a class name string. Responsive to receiving the data element, the serializer replaces the class name string with a code having a smaller size than the class name string to form a modified data element. Responsive to forming the modified data element, in which the serializer serializes the modified data element. The serialized data is transmitted and deserialized by deserializer which replaces the indicator with the class name.

24 Claims, 197 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 119

Full	Title	Citation	Front	Review	Classification	Date	Reference	Exemplary	Claims	KWC	Draw. De
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